

WHAT IS CLAIMED IS:

1. A sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication between the IC chip and a communication device or means and also having on its one side at least a portion of the data stored in the memory of the IC chip which is written in an encrypted form.
2. A sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication between the IC chip and a communication device or means and also having on its one side at least a portion of the data stored in the memory of the IC chip and a portion of information written in the medium both which are written in encrypted forms.
3. A method for the determination of genuineness or counterfeitness of a sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication between the IC chip and a communication device or means and also having on its one side at least a portion of the data stored in the memory of the IC chip which is written in an encrypted form;
the method comprising reading the encrypted data,
decrypting the read data, and verifying the decrypted data

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against the unencrypted data which is received from the IC chip.

4. A method for the determination of genuineness or counterfeitness of a sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication between the IC chip and a communication device or means and also having on its one side at least a portion of the data stored in the memory of the IC chip and a portion of information written in the medium both which are written in encrypted forms;

the method comprising reading the encrypted data, decrypting the read data, and verifying data of the difference between the decrypted data and the unencrypted data which is received from the IC chip against the portion of the information written on the medium.

5. An apparatus for the determination of genuineness or counterfeitness of a sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication with an external device and also having on its one side at least a portion of the data stored in the memory of the IC chip which is written in an encrypted form;

the apparatus comprising a unit for reading and decrypting the encrypted data and a unit for verifying the decrypted data against the unencrypted data which is received

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from the IC chip.

6. An apparatus for the determination of genuineness or counterfeitness of a sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication between the IC chip and a communication device or means and also having on its one side at least a portion of the data stored in the memory of the IC chip and a portion of information written on the medium both which are written in encrypted forms;

the apparatus comprising a unit for reading and decrypting the encrypted data and a unit for verifying data of the difference between the decrypted data and the unencrypted data which is received from the IC chip against the portion of the information written in the medium.

7. An apparatus for issuing a certificate, comprising means for holding a sheet-shaped medium having an IC chip which is attached on or put in the medium and which is constructed so that data stored in a memory of the IC chip can be sent in a radio mode by radio communication between the IC chip and a communication device or means and for writing information required for the certificate on one side of the medium.

8. The apparatus according to claim 7, wherein the apparatus further comprises a unit for writing required data in the memory of the IC chip.

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9. The apparatus according to claim 7, wherein the apparatus further comprises a unit for encrypting required data and writing the encrypted data in the memory of the IC chip.

10. The apparatus according to claim 7, wherein the apparatus is constructed so that the data stored in the memory of the IC chip is written in the medium in an encrypted form.

11. The method according to claim 3, wherein the sheet-shaped medium comprises one member selected from the group consisting of a paper, a plastic and a film with a peel-off sticker.

12. The method according to claim 4, wherein the sheet-shaped medium comprises one member selected from the group consisting of a paper, a plastic and a film with a peel-off sticker.

13. The method according to claim 3, wherein the sheet-shaped medium is intended to be used as a life insurance certificate, a non-life insurance certificate, a health insurance certificate, a merchandise coupon, a share certificate, a paper money, a ticket or a passenger ticket.

14. The method according to claim 4, wherein the sheet-shaped medium is intended to be used as a life insurance certificate, a non-life insurance certificate, a health insurance certificate, a merchandise coupon, a share certificate, a paper money, a ticket or a passenger ticket.

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